2/11 #2

RAW SEQUENCE LISTING   DATE: 02/19/2002
PATENT APPLICATION: US/10/057,113   TIME: 15:10:40

Input Set : N:\Crf3\RULE60\10057113.txt
Output Set: N:\CRF3\02192002\J057113.raw

SEQUENCE LISTING
```
 3 (1) GENERAL INFORMATION:
 5      (i) APPLICANT: THE UNITED STATES OF AMERICA, AS REPRESENTED
 6                     BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES IN
 7                     CARE OF NATIONAL INSTITUTES OF HEALTH Office of Technology
 8                     Transfer Suite 325, 6011 Executive Boulevard, Rockville, MD
 9                     20852
11     (ii) TITLE OF INVENTION: GLYCOPROTEIN HORMONE SUPERAGONISTS
13    (iii) NUMBER OF SEQUENCES: 37
15     (iv) CORRESPONDENCE ADDRESS:
16          (A) ADDRESSEE: NEEDLE & ROSENBERG, P.C.
17          (B) STREET: Suite 1200, 127 Peachtree Street
18          (C) CITY: Atlanta
19          (D) STATE: Georgia
20          (E) COUNTRY: USA
21          (F) ZIP: 30303
23      (v) COMPUTER READABLE FORM:
24          (A) MEDIUM TYPE: Floppy disk
25          (B) COMPUTER: IBM PC compatible
26          (C) OPERATING SYSTEM: PC-DOS/MS-DOS
27          (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
29     (vi) CURRENT APPLICATION DATA:
C--> 30          (A) APPLICATION NUMBER: US/10/057,113
C--> 31          (B) FILING DATE: 25-Jan-2002
32          (C) CLASSIFICATION:
34    (vii) PRIOR APPLICATION DATA:
35          (A) APPLICATION NUMBER: PCT/US96/06483
36          (B) FILING DATE:
40   (viii) ATTORNEY/AGENT INFORMATION:
41          (A) NAME: Perryman, David G.
42          (B) REGISTRATION NUMBER: 33,438
43          (C) REFERENCE/DOCKET NUMBER: 14014.0185/P
45     (ix) TELECOMMUNICATION INFORMATION:
46          (A) TELEPHONE: 404/688-0770
47          (B) TELEFAX: 404/688-9880
50 (2) INFORMATION FOR SEQ ID NO: 1:
52      (i) SEQUENCE CHARACTERISTICS:
53          (A) LENGTH: 22 base pairs
54          (B) TYPE: nucleic acid
55          (C) STRANDEDNESS: single
56          (D) TOPOLOGY: linear
58     (ii) MOLECULE TYPE: DNA (genomic)
63     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
```

ENTERED

RAW SEQUENCE LISTING   DATE: 02/19/2002
PATENT APPLICATION: US/10/057,113   TIME: 15:10:40

Input Set : **N:\Crf3\RULE60\10057113.txt**
Output Set: **N:\CRF3\02192002\J057113.raw**

```
65 CCTGATAGAT TGCCCAGAAT GC                                     22
67 (2) INFORMATION FOR SEQ ID NO: 2:
69      (i) SEQUENCE CHARACTERISTICS:
70          (A) LENGTH: 24 base pairs
71          (B) TYPE: nucleic acid
72          (C) STRANDEDNESS: single
73          (D) TOPOLOGY: linear
75     (ii) MOLECULE TYPE: DNA (genomic)
80     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
82 GTGATAATAA CAAGTACTGC AGTG                                   24
94 (2) INFORMATION FOR SEQ ID NO: 3:
86      (i) SEQUENCE CHARACTERISTICS:
87          (A) LENGTH: 12 amino acids
88          (B) TYPE: amino acid
89          (C) STRANDEDNESS: Not Relevant
90          (D) TOPOLOGY: linear
92     (ii) MOLECULE TYPE: peptide
97     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
99     Cys Thr Leu Gln Glu Asn Pro Phe Phe Ser Gln Pro
100    1               5                       10
102 (2) INFORMATION FOR SEQ ID NO: 4:
104      (i) SEQUENCE CHARACTERISTICS:
105          (A) LENGTH: 12 amino acids
106          (B) TYPE: amino acid
107          (C) STRANDEDNESS: Not Relevant
108          (D) TOPOLOGY: linear
110     (ii) MOLECULE TYPE: peptide
115     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
117      Cys Thr Leu Gln Glu Asn Pro Phe Phe Ser Gln Pro
118      1               5                       10
120 (2) INFORMATION FOR SEQ ID NO: 5:
122      (i) SEQUENCE CHARACTERISTICS:
123          (A) LENGTH: 12 amino acids
124          (B) TYPE: amino acid
125          (C) STRANDEDNESS: Not Relevant
126          (D) TOPOLOGY: linear
128     (ii) MOLECULE TYPE: peptide
133     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
135      Cys Thr Leu Gln Glu Asn Pro Phe Phe Ser Gln Pro
136      1               5                       10
138 (2) INFORMATION FOR SEQ ID NO: 6:
140      (i) SEQUENCE CHARACTERISTICS:
141          (A) LENGTH: 12 amino acids
142          (B) TYPE: amino acid
143          (C) STRANDEDNESS: Not Relevant
144          (D) TOPOLOGY: linear
146     (ii) MOLECULE TYPE: peptide
151     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
153      Cys Gln Leu His Glu Asn Pro Phe Phe Ser Gln Pro
```

```
RAW SEQUENCE LISTING              DATE: 02/19/2002
PATENT APPLICATION:  US/10/057,113     TIME: 15:10:40

        Input Set : N:\Crf3\RULE60\10057113.txt
        Output Set: N:\CRF3\02192002\J057113.raw

154     1            5                   10
156 (2) INFORMATION FOR SEQ ID NO: 7:
158     (i) SEQUENCE CHARACTERISTICS:
159         (A) LENGTH: 12 amino acids
160         (B) TYPE: amino acid
161         (C) STRANDEDNESS: Not Relevant
162         (D) TOPOLOGY: linear
164     (ii) MOLECULE TYPE: peptide
169     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
171     Cys Lys Pro Arg Glu Asn Gln Phe Phe Ser Lys Pro
172     1            5                   10
174 (2) INFORMATION FOR SEQ ID NO: 8:
176     (i) SEQUENCE CHARACTERISTICS:
177         (A) LENGTH: 12 amino acids
178         (B) TYPE: amino acid
179         (C) STRANDEDNESS: Not Relevant
180         (D) TOPOLOGY: linear
182     (ii) MOLECULE TYPE: peptide
187     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
189     Cys Lys Pro Arg Glu Asn Lys Phe Phe Ser Lys Pro
190     1            5                   10
192 (2) INFORMATION FOR SEQ ID NO: 9:
194     (i) SEQUENCE CHARACTERISTICS:
195         (A) LENGTH: 12 amino acids
196         (B) TYPE: amino acid
197         (C) STRANDEDNESS: Not Relevant
198         (D) TOPOLOGY: linear
200     (ii) MOLECULE TYPE: peptide
205     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
207     Cys Lys Leu Lys Glu Asn Lys Tyr Phe Ser Arg Leu
208     1            5                   10
210 (2) INFORMATION FOR SEQ ID NO: 10:
212     (i) SEQUENCE CHARACTERISTICS:
213         (A) LENGTH: 12 amino acids
214         (B) TYPE: amino acid
215         (C) STRANDEDNESS: Not Relevant
216         (D) TOPOLOGY: linear
218     (ii) MOLECULE TYPE: peptide
223     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
225     Cys Lys Leu Lys Glu Asn Lys Tyr Phe Ser Lys Pro
226     1            5                   10
228 (2) INFORMATION FOR SEQ ID NO: 11:
230     (i) SEQUENCE CHARACTERISTICS:
231         (A) LENGTH: 12 amino acids
232         (B) TYPE: amino acid
233         (C) STRANDEDNESS: Not Relevant
234         (D) TOPOLOGY: linear
236     (ii) MOLECULE TYPE: peptide
241     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/057,113

DATE: 02/19/2002
TIME: 15:10:40

Input Set : N:\Crf3\RULE60\10057113.txt
Output Set: N:\CRF3\02192002\J057113.raw

```
243     Cys Lys Leu Lys Glu Asn Lys Tyr Phe Ser Lys Pro
244     1               5                   10
246 (2) INFORMATION FOR SEQ ID NO: 12:
248     (i) SEQUENCE CHARACTERISTICS:
249             (A) LENGTH: 12 amino acids
250             (B) TYPE: amino acid
251             (C) STRANDEDNESS: Not Relevant
252             (D) TOPOLOGY: linear
254     (ii) MOLECULE TYPE: peptide
259     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
261     Cys Lys Leu Arg Glu Asn Lys Tyr Phe Phe Lys Leu
262     1               5                   10
264 (2) INFORMATION FOR SEQ ID NO: 13:
266     (i) SEQUENCE CHARACTERISTICS:
267             (A) LENGTH: 12 amino acids
268             (B) TYPE: amino acid
269             (C) STRANDEDNESS: Not Relevant
270             (D) TOPOLOGY: linear
272     (ii) MOLECULE TYPE: peptide
277     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
279     Cys Lys Leu Lys Glu Asn Lys Tyr Phe Ser Lys Leu
280     1               5                   10
282 (2) INFORMATION FOR SEQ ID NO: 14:
284     (i) SEQUENCE CHARACTERISTICS:
285             (A) LENGTH: 12 amino acids
286             (B) TYPE: amino acid
287             (C) STRANDEDNESS: Not Relevant
288             (D) TOPOLOGY: linear
290     (ii) MOLECULE TYPE: peptide
295     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
297     Cys Lys Leu Lys Glu Asn Lys Tyr Phe Ser Lys Leu
298     1               5                   10
300 (2) INFORMATION FOR SEQ ID NO: 15:
302     (i) SEQUENCE CHARACTERISTICS:
303             (A) LENGTH: 12 amino acids
304             (B) TYPE: amino acid
305             (C) STRANDEDNESS: Not Relevant
306             (D) TOPOLOGY: linear
308     (ii) MOLECULE TYPE: peptide
313     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
315     Cys Lys Leu Lys Glu Asn Lys Tyr Phe Ser Lys Leu
316     1               5                   10
318 (2) INFORMATION FOR SEQ ID NO: 16:
320     (i) SEQUENCE CHARACTERISTICS:
321             (A) LENGTH: 12 amino acids
322             (B) TYPE: amino acid
323             (C) STRANDEDNESS: Not Relevant
324             (D) TOPOLOGY: linear
326     (ii) MOLECULE TYPE: peptide
```

RAW SEQUENCE LISTING   DATE: 02/19/2002
PATENT APPLICATION: US/10/057,113   TIME: 15:10:40

Input Set : N:\Crf3\RULE60\10057113.txt
Output Set: N:\CRF3\02192002\J057113.raw

```
331    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
333    Cys Lys Leu Lys Glu Asn Lys Tyr Phe Ser Lys Leu
334    1           5                   10
336 (2) INFORMATION FOR SEQ ID NO: 17:
338    (i) SEQUENCE CHARACTERISTICS:
339         (A) LENGTH: 12 amino acids
340         (B) TYPE: amino acid
341         (C) STRANDEDNESS: Not Relevant
342         (D) TOPOLOGY: linear
344    (ii) MOLECULE TYPE: peptide
349    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
351    Cys Lys Leu Lys Gln Asn Lys Tyr Phe Ser Lys Leu
352    1           5                   10
354 (2) INFORMATION FOR SEQ ID NO: 18:
356    (i) SEQUENCE CHARACTERISTICS:
357         (A) LENGTH: 12 amino acids
358         (B) TYPE: amino acid
359         (C) STRANDEDNESS: Not Relevant
360         (D) TOPOLOGY: linear
362    (ii) MOLECULE TYPE: peptide
367    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
369    Cys Lys Leu Gly Glu Asn Arg Phe Phe Ser Lys Pro
370    1           5                   10
372 (2) INFORMATION FOR SEQ ID NO: 19:
374    (i) SEQUENCE CHARACTERISTICS:
375         (A) LENGTH: 12 amino acids
376         (B) TYPE: amino acid
377         (C) STRANDEDNESS: Not Relevant
378         (D) TOPOLOGY: linear
380    (ii) MOLECULE TYPE: peptide
385    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:
387    Cys Lys Leu Gly Glu Asn Arg Phe Phe Ser Lys Pro
388    1           5                   10
390 (2) INFORMATION FOR SEQ ID NO: 20:
392    (i) SEQUENCE CHARACTERISTICS:
393         (A) LENGTH: 12 amino acids
394         (B) TYPE: amino acid
395         (C) STRANDEDNESS: Not Relevant
396         (D) TOPOLOGY: linear
398    (ii) MOLECULE TYPE: peptide
403    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:
405    Cys Lys Leu Gly Glu Asn Arg Phe Phe Ser Lys Pro
406    1           5                   10
408 (2) INFORMATION FOR SEQ ID NO: 21:
410    (i) SEQUENCE CHARACTERISTICS:
411         (A) LENGTH: 12 amino acids
412         (B) TYPE: amino acid
413         (C) STRANDEDNESS: Not Relevant
414         (D) TOPOLOGY: linear
```

VERIFICATION SUMMARY   DATE: 02/19/2002
PATENT APPLICATION: US/10/057,113   TIME: 15:10:41

Input Set : **N:\Crf3\RULE60\10057113.txt**
Output Set: **N:\CRF3\02192002\J057113.raw**

L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]